MaxStream

Stand-Alone Radio Modems

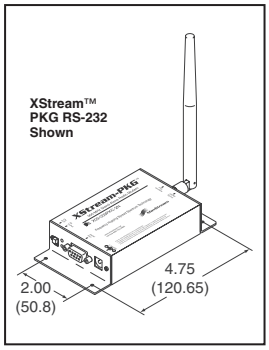
MaxStream stand-alone radio modems were designed to provide end users with an easy-to-install wireless serial communication link.

Features:

• Plug and communicate (no configuration required) • Transparent operation supports existing software and systems • Retries and acknowledgements for guaranteed packet delivery • RS-232/422/485, Ethernet, USB protocol and multi-drop bus support • Low power modes for current consumption as low as 1mA • Support for multiple data formats (7/8 bits, Even/Odd/No Parity) • Selectable power outputs

Includes:

• Stand-Alone Radio Modem • CD (software and documentation) • 1/2 wave antenna • Serial loopback adapter • NULL modem adapter(male-to-male) • NULL modem adapter(female-to-female) • Male DB-9 to RJ-45 adapter • Female DB-9 to RJ-45 adapter • Power adapter • 9V battery adapter • RS-232 cable (6')



Freq-uency	Power Output	RF Data Rate (Baud)	Connection Type	Digi-Key Part No.	Price Each	MaxStream Part No.
900 MHz	1Watt	115K	RS-232	XT09-PKI-RA-ND	299.00	XT09-PKI-RA
900 MHz	1Watt	115K	USB	XT09-PKC-UA-ND◆	299.00	XT09-PKC-UA
900 MHz	100mW	9600	RS-232	X09-009PKC-RA-ND◆	250.00	X09-009PKC-RA
900 MHz	100mW	19.2K	RS-232	X09-019PKC-RA-ND◆	250.00	X09-019PKC-RA
2.4 GHz	50mW	9600	RS-232	X24-009PKC-RA-ND◆	199.00	X24-009PKC-RA
2.4 GHz	50mW	19.2K	RS-232	X24-019PKC-RA-ND	199.00	X24-019PKC-RA
900 MHz	100mW	9600	USB	X09-009PKC-UA-ND	250.00	X09-009PKC-UA
900 MHz	100mW	19.2K	USB	X09-019PKC-UA-ND	250.00	X09-019PKC-UA
2.4 GHz	50mW	9600	USB	X24-009PKC-UA-ND	199.00	X24-009PKC-UA
2.4 GHz	50mW	19.2K	USB	X24-019PKC-UA-ND	199.00	X24-019PKC-UA
900 MHz	100mW	9600	Ethernet	X09-009PKC-EA-ND	350.00	X09-009PKC-EA
900 MHz	100mW	19.2K	Ethernet	X09-019PKC-EA-ND	350.00	X09-019PKC-EA
900 MHz	4mW	38.4K	RS-232	XC09-038PKC-RA-ND	99.00	XC09-038PKC-RA
900 MHz	4mW	38.4K	USB	XC09-038PKC-UA-ND	99.00	XC09-038PKC-UA

◆ ***RoHS Compliant***

Wireless Development Kits

Development Kit Features:

• Plug-and-communicate (default mode - no configuration required)
• True peer to peer network (no need to configure a "Master" radio)
• Transparent mode supports existing software applications and legacy systems
• Addressing capabilities provide for point-to-point and point-to-multipoint networks
• Uses standard AT commands and/or fast binary commands for changing parameters
• Native RS485/422 (multi-drop-bus) protocol support
• Retries and acknowledgements of packets
• Provides guaranteed delivery of critical packets in difficult environments
• Multiple low power modes including shutdown pin, cyclic sleep and serial port sleep
• Signal strength register for link quality monitoring and debugging

XStream™ Development Kits Include:

• XStream wireless module with an integrated wire antenna
• XStream wireless module with 1/2 Wave dipole antenna
• (2) RS-232/422/485 interface boards
• CD (X-CTU™ software and documentation)
• Serial loopback adapter
• NULL modem adapter (male-to-male)
• NULL modem adapter (female-to-female)
• Male DB-9 to RJ-45 adapter
• Female DB-9 to RJ-45 adapter
• (2) Power adapters
• 9V battery adapter
• (2) RS-232 cables (6')

XCite™ Development Kits Include:

• XCite wireless module with an integrated wire antenna
• XCite wireless module with 1/2 wave dipole antenna
• (2) RS-232 PC serial interface boards
• (2) DSub-9 serial cables
• (2) 9V 400mA power supplies
• 9V battery clip adapter
• Serial loopback adapter
• NULL modem adapter (male-to-male)
• NULL modem adapter (female-to-female)
• X-CTU test/config. utility software (EXE file)

XTend™ Development Kits Include:

• (2) XTend OEM RF modules with 1/2 wave dipole antennas
• (2) RS-232 PC serial interface boards
• (2) DSub-9 serial cables
• (2) 9V 400mA power supplies
• 9V battery clip adapter
• Serial loopback adapter
• NULL modem adapter (male-to-male)
• NULL modem adapter (female-to-female)
• X-CTU test/config. utility software

Frequency	Power Output	RF Data Rate (Baud)	Digi-Key Part No.	Price Each	MaxStream Part No.
XStream Development Kits					
900 MHz	100mW	9600	X09-009-DK-ND	446.18	X09-009-DK
900 MHz	100mW	19.2K	X09-019-DK-ND	409.00	X09-019-DK
2.4 GHz	50mW	9600	X24-009-DK-ND◆	409.00	X24-009-DK
2.4 GHz	50mW	19.2K	X24-019-DK-ND	409.00	X24-019-DK
XCite Development Kits					
900 MHz	5mW	9600	XC09-009-DK-ND	149.00	XC09-009-DK
900 MHz	5mW	38.4K	XC09-038-DK-ND	149.00	XC09-038-DK
XTend Development Kits					
900 MHz	1 Watt	115K	XT09-DK-ND	499.00	XT09-DK

◆ ***RoHS Compliant***

Wireless OEM Modules

XStream™, XCite™ and XTend™ Wireless OEM Modules were designed to provide product designers with a transparent and easy to design-in wireless serial communication link.

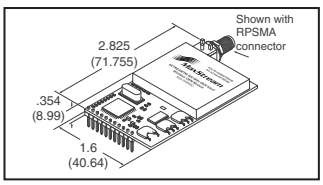
Features:

• Plug-and-communicate (no configuration required)
• Transparent operation supports existing software and systems
• 5V CMOS level serial interface (configurable interface baud rate)
• XON/XOFF or hardware flow control
• Support for multiple data formats (7/8/9 bits, Even/Odd/No Parity)
• Low power modes down to 10µA

XStream: **Range:** Up to 1500 feet indoor/urban • Up to 7 miles line-of-sight with dipole • Up to 20 miles line-of-sight with high gain • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) • -110dBm receiver sensitivity **Power:** 5VDC supply voltage

XCite: **Range:** 300 feet indoor/urban • 1000 feet line-of-sight with dipole • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • -108dBm receiver sensitivity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) **Power:** 2.85VDC to 5.50VDC

XTend: **Range:** Up to 3,000 feet indoor/Urban • Up to 14 miles line-of-sight with dipole • Up to 40 miles line-of-sight with high gain • Allows up to 10 FHSS (frequency hopping spread spectrum pairs to operate in close proximity) • -110dBm receiver sensitivity • Board size 1.456: (36.98mm) x 2.402" (61mm) **Power:** 2.8 to 5.5VDC



Frequency	Power Output	RF Data Rate (Baud)	Connector/ Antenna Type	Digi-Key Part No.	Price Each	MaxStream Part No.
XStream Modules						
900 MHz	100mW	9600	RPSMA	X09-009NSC-ND◆	150.00	X09-009NSC
900 MHz	100mW	19.2K	RPSMA	X09-019NSC-ND◆	150.00	X09-019NSC
900 MHz	100mW	9600	3" Wire	X09-009WNC-ND◆	138.00	X09-009WNC
900 MHz	100mW	19.2K	3" Wire	X09-019WNC-ND	138.00	X09-019WNC
2.4 GHz	50mW	9600	RPSMA	X24-009NSC-ND◆	99.00	X24-009NSC
2.4 GHz	50mW	19.2K	RPSMA	X24-019NSC-ND	99.00	X24-019NSC
2.4 GHz	50mW	9600	3" Wire	X24-009WNC-ND	95.00	X24-009WNC
2.4 GHz	50mW	19.2K	3" Wire	X24-019WNC-ND◆	95.00	X24-019WNC
XCite Modules — RoHS Compliant						
900 MHz	5mW	9600	3" Wire	XC09-009WNC-ND	38.00	XC09-009WNC
900 MHz	5mW	38.4K	3" Wire	XC09-038WNC-ND	38.00	XC09-038WNC
900 MHz	5mW	9600	RPSMA	XC09-009NSC-ND	40.00	XC09-009NSC
900 MHz	5mW	38.4K	RPSMA	XC09-038NSC-ND	40.00	XC09-038NSC
XTend Modules						
900 MHz	1 Watt	115K	RPSMA	XT09-SI-ND	179.00	XT09-SI
900 MHz	1 Watt	115K	MMCX	XT09-MI-ND	179.00	XT09-MI

◆ ***RoHS Compliant***

XBee™, XBee-PRO™ and XBee™ Series 2 Wireless Modules

XBee and XBee-PRO Wireless Modules were designed to provide all the benefits of low-power advanced networking in a low-cost solution that dramatically reduces time-to-market. In addition, the small form factor saves valuable board space. The XBee Series 2 is based on ZigBee/802.15.4 silicon from Ember™. It features ZigBee firmware for creating ad-hoc mesh networks.

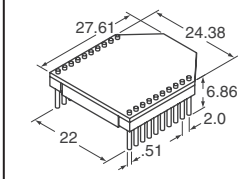
Features:

• Plug and communicate (No configuration required) • Retries and acknowledgements for guaranteed packet delivery • Uses standard AT commands for changing parameters • Low power modes down to 10µA

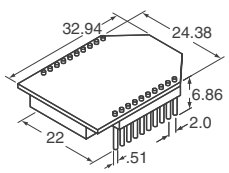
Development Kit Includes:

• (2) XBee-PRO Modules with wire and U.FL • (3) XBee Modules with each antenna option • RPSMA 1/2 wave antenna • Cables • Connectors • XCTU Software • 9V clip and adaptor • (2) XBee-Series 2 OEM RF Modules • (5) Development Boards

Fre-quency	Power Output	RF Data Rate (Baud)	Connection / Antenna Type	Digi-Key Part No.	Price Each	MaxStream Part No.
XBee Modules — RoHS Compliant						
2.4 GHz	1mW	250K	Whip Antenna	XB24-AWI-001-ND	19.00	XB24-AWI-001
2.4 GHz	1mW	250K	Chip Antenna	XB24-ACI-001-ND	23.20	XB24-ACI-001
2.4 GHz	1mW	250K	U.FL Connector	XB24-AUI-001-ND	23.20	XB24-AUI-001
XBee-PRO Modules — RoHS Compliant						
2.4 GHz	100mW	250K	Whip Antenna	XBP24-AWI-001-ND	32.00	XBP24-AWI-001
2.4 GHz	100mW	250K	Chip Antenna	XBP24-ACI-001-ND	36.00	XBP24-ACI-001
2.4 GHz	100mW	250K	U.FL Connector	XBP24-AUI-001-ND	36.00	XBP24-AUI-001
NEW! XBee Series 2 Modules — RoHS Compliant NEW!						
2.4 GHz	2mW	250K	Chip Antenna	XB24-BCIT-004-ND	21.00	XB24-BCIT-004
2.4 GHz	2mW	250K	Wire Antenna	XB24-BWIT-004-ND	21.00	XB24-BWIT-004
2.4 GHz	2mW	250K	RPSMA	XB24-BSIT-004-ND	23.00	XB24-BSIT-004
2.4 GHz	2mW	250K	U.FL Connector	XB24-BUIT-004-ND	21.00	XB24-BUIT-004
XBee, XBee-PRO and XBee Series 2 Development Kits						
Developer's Starter Kit for XBee				XB24-DKS-ND	129.00	XB-DKS
Developer's Kit for XBee-PRO				XBP24-DKS-ND	179.00	XBP-DKS
Development Kit for XBee-PRO				XB24-PDK-ND	329.00	XB24-PDK
Development Kit for XBee Series 2				XB24-BPDK-ND ***NEW!***	339.00	XB24-BPDK



XBee/XBee Series 2 Module



XBee-PRO Module

~ Exclusive Preview ~

New Product Available Now!